

BABENKO, Kh.L., kand.tekhn.nauk; YERMAKOV, V.G.

Testing of the blading of a steam turbine with counterpressure.  
Energomashinostroenie 7 no.8:12-15 Ag '61. (MIRA 14:10)  
(Steam turbines--Blades)

BABENKO, Kh. L., inzh.

Comparison of calculated and experimental data from the high-pressure stages of a steam turbine. Elek. sta. 32 no.1:22-24  
Ja '61. (MIRA 16:7)

(Steam turbines)

26.2.20

27.1.7  
S/096/62/000/005/004/009  
E194/E454

AUTHOR: Babenko, Kh.L., Candidate of Technical Sciences

TITLE: The influence of design factors on the characteristics of gas turbine stages with low  $D_{cp}/\ell_p$  ratio

PERIODICAL: Teploenergetika, no.5, 1962, 43-46

TEXT: This work, a continuation of earlier work by the author, describes how lacing wires, radial clearances, guide vane pitch, peripheral taper of flow path and shortening of blades influence the characteristics of an experimental turbine with low ratio of mean stage diameter to blade length,  $D_{cp}/\ell_p$ . Tests were made with up to three lacing wires of different diameters. The presence of a wire in the flow, particularly near its central part, is the main cause of losses. Wire diameter is of minor importance but the wires should be as near as possible to the blade tips. The presence of wire causes some increase in stage reaction. In the earlier work tests were made with various values of radial clearance from an initial value of 0.8 mm (0.55%) to 5.6 mm. Increasing the ratio of clearance to blade length by 1%

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E194/E454

The influence of design factors ...

from 0.55 to 1.55% increases the energy loss by 4.2% and increasing it by 1% from 2.85 to 3.85% increases the loss by only 2.5%. In the tested stage, the losses associated with radial clearance are high because the stage reaction is as high as 70%. The number of guide vanes was varied between 45 and 23, the curve of efficiency plotted against the guide vane pitch has a clearly expressed maximum, tests on an experimental turbine are necessary to determine the test pitch reliably and static tests do not suffice. Gas turbine rotors usually have the same root diameter for blading of all stages and space for expanding gases in successive stages is provided for by increasing blade lengths and, accordingly, flow path is opened up by varying the blade angle at the tip; in general, the greater the angle the lower the efficiency. Tests were made with blades shortened by different amounts raising the  $D_{cp}/\ell_p$  ratio from 2.95 to 3.32 and 3.84 with fairly large radial clearances. Increasing the  $D_{cp}/\ell_p$  ratio by this amount reduced the efficiency by somewhat less than 1%. A numerical example is given of application of the conclusions reached in

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S/096/62/000/005/004/009  
E194/E454

The influence of design factors ...

the article. There are 6 figures and 1 table.

ASSOCIATION: Tsentral'nyy kotloturbinnyy institut  
(The Central Boiler and Turbine Institute)

Card 3/3

BABENKO, Kh.L., kand.tekhn.nauk

"Thermal design of steam turbines" by G.A.Zal'f, V.V.Zviagintsev.  
Reviewed by Kh.L.Babenko. Energomashinostroenie 8 no.4:44-45  
(MIRA 15:4)  
Ap '62.  
(Steam turbines) (Zal'f, G.A.) (Zviagintsev, V.V.)

BABENKO, Kh. L.e.s. kand. tekhn. nauk

Standardization of steam turbines with low and high power ratings.  
Energomashincstroenie 9 no.5:47-48 My '63. (MIRA 16:7)

(Steam turbines)

BABENKO, Kh.L., kand.tekhn.nauk

Review of G.A. Mikhailovskii's book "Thermodynamic calculations of processes in steam and gas mixtures." Energomashinostroenie 9 no. 11:45-46 N '63.  
(MIRA 17:2)

ZAVADOVSKIY, A.M., kand. tekhn. nauk; BARENKO, Kh.L., kand. tekhn. nauk

Method for designing partial turbine stages. Energoatomstroenie  
10 no.6:22-24 Je '64.

(MIR 1719)

ZAKHARENKO, V.S., kand. tekhn. nauk KURIS, I.M., inzh.; BABENKO, N.Ya., inzh.

Tool alloy cutting instrument for ski processing. Der. prom.  
24 no.8:25-26 Ag '65. (MIRA 18:10)

1. Institut steklosvyrobnoy materialov Gosplana UkrSSR.

BABENKO, L.A.

Discovery of the merganser (Mergus merganser Lin.) on the Dnieper  
near Kanev in the summer of 1947, Nauk. zap., Kiev, ukr., 9 no. 6:162 '50.  
(Dnieper River--Mergansers)  
(MLRA 9:10)

~~BARINCO, L.A.~~

Destruction of birds on the highways of the Ukrainian S.S.R.  
Nauk.zap.Kiev.un.13 no.12:87-91 '54. (MLRA 9:10)  
(Ukraine--Birds)

BAELENKO, L.A.

Biology of *Ceropeltis austriaca* Lour. in the Ukraine. Nauk. zap. Kiev.un.  
12 no.3:99 '53. (MIRA 9:10)  
(Ukraine--Serpents)

BABENKO, L.O.

Aleksei Dmitrievich Lubkin. Visnyk Kyiv.un. no.5. Ser.biol. no.2:  
145-146 '62. " (MIRA 16:5)  
(LUBKIN, ALEKSEI DMITRIEVICH, 1880-1961)

BABENKO, L.O.; PIDOPLICHKO, I.G. [Pidoplichko, I.H.]

The brothers S.D. and O.D. Lubkin. Zbir. prats. Zool. muz.  
AN URSR no.32:92-93 '63. (MIRA 16:11)

L 13919-66 ENT(d)/LWP(1) IJP(c) BB/GG  
ACC NR: AP6001201

SOURCE CODE: UR/0378/65/000/005/0041/0045

AUTHOR: Babenko, L. P. (Supervising Engineer)

40

ORG: Institute of Cybernetics, AN UkrSSR (Institut kibernetiki An UkrSSR)

B

TITLE: The use of Cobol-type languages for translator description

SOURCE: Kibernetika, no. 5, 1965, 41-45

TOPIC TAGS: computer coding, computer language, computer logic, algorithm

ABSTRACT: Translation algorithms operate with objects of information of complex structure (tables, lists, etc.). They are affected in an essential manner by the method of information coding and the structure of the machine memory the code of which is used to establish the translation. The paper describes the use of the Cobol language apparatus for the description of translation algorithms and outlines the structure of the memory and the logic of computer operation. The establishment of a translator from a formal algorithmic language into a machine language reduces to 1) the determination of the rules for the translation of the input language into the instructions of the output language and 2) the establishment of the program carrying out the translation according to these rules. The author discusses on a particular example the description of the objects of information and then presents a formal description of the structure of the machine memory. Orig. art. has: 2 tables.

SUB CODE: 09/ SUBM DATE: 21Jun65/ ORIG REF: 001/ OTH REF: 001

TS  
Card 1/1

UDC: 681.142.001:51

ACC NR: AII6016004

Monograph

UR/

Babenko, Lyudmila Petrovna; Dovgopolaya, Lyudmila Ivanova; Korniyenko, Galina Mikhaylovna; Yushchenko, Yekaterina Logvinovna

Automatic programming system for the M-20 computer; translator from the address language. A manual (Sistema avtomaticheskogo programmirovaniya dlya mashiny M-20; translyator s adresnogo yazyka. Spravochnoye rukovodstvo) Kiev, Naukova dumka, 1965. 153 p. illus., biblio. (At head of title: Akademiya nauk Ukrainskoy SSR) 7750 copies printed.

TOPIC TAGS: computer language, computer programming, algorithmic language, machine language

PURPOSE AND COVERAGE: This book is intended for persons who use computers in their work or are engaged in the designing of automatic programming systems. The algorithmic address language used for describing computational, and information and logical processes, as well as the respective programming program developed at the Institute of Cybernetics, AN UkrSSR for the Soviet M-20 computer, are described in detail. Methods of programming a program and examples of programming are reviewed. The automated programming system developed by the authors makes it possible to increase the calculation rate on the M-20 computer by a factor of 10 to 15.

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ACC NR: AM6016004

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Ch. II. The PP-M programmer

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1. Calculation of a production plan based on a given yield program -- 86
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Appendices

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1. Basic concepts and means of an address language -- 123
2. Rules for coding information in PP-M internal language -- 139
3. Description of the letter-perforator -- 140
4. Mathematical description of the M-20 computer -- 142

SUB CODE: 09/ SUBM DATE: 19Nov65/ ORIG REF: 007

Card 3/3

SHLENNOVA, M.F.; BABENKO, L.V.

"Blood sucking insects of the taiga and their control." A.V.Maslov.

Reviewed by M.F.Shlenova, L.V.Babenko. Med.paraz.bol.25 no.2:185

Ap-Je '56.

(MLRA 9:8)

(INSECTS, INJURIOUS AND BENEFICIAL)

(MASLOV, A.V.)

POSPELOVA-SHTROM, M.V.; BABENKO, L.V.; PARSHINA, N.P.; DINEVA, A.I.

Age identification of nymphs in *Aelectrorobius tholozani* (Lab.  
et. Még.). Dokl.AN SSSR 106 no.4:757-751 F '56. (MLRA 9:6)

1.Institut malyarii, meditsinskoy parazitologii i gel'mintologii  
Ministerstva zdravookhraneniya SSSR i Moskovskiy gosudarstvennyy  
universitet imeni M.V.Lomonosova. Predstavлено akademikom K.I.  
Skryabinyem.

(MITES)

BABENKO, L.V.

Seasonal phenomena in the life of Ixodes dicinus L. and Ixodes persulcatus P.Sch. Med.paraz. i paraz.bol. 25 no.4:346-352 O-D '56.  
(MLRA 10:1)

1. Iz Instituta malyarii, meditsinskoy parazitologii i gel'mintologii  
Ministerstva zdravookhraneniya SSSR (dir. instituta - prof. P.G.  
Sergiyev, zav. otdelom - prof. V.N.Beklemishev)

(TICKS,

Ixodes ricinus & Ixodes persulcatus, life & seasonal  
variations (Rus))

EXCERPTA MEDICA Sec 17 Vol 5/2 Public Health Feb 59

692. CHARACTERISTICS OF A NIDUS OF TICK-BORNE ENCEPHALITIS IN THE ZONE OF CONSTRUCTION OF THE KRAZNOYARSK HYDROELECTRIC STATION AND DEVELOPMENT OF THE MEASURES OF ANTI-TICK PROTECTION OF THE WORKERS. PRELIMINARY REPORT (Russian text) - Babenko L. V., Davidova M. S., Zakorkina T. N., Blokhin V. G., Voronkov N. A., Naumov R. I., and Khizhinsky P. G. - MED. PARAZIT. (Mosk.) 1958, 27/1 (6-14) Graphs 2 Illus. 3

The majority of ticks found in the area under observation belonged to the species *Ixodes persulcatus*. An attempt was made to eradicate the ticks by aircraft application of hexachlorane (50-55 kg. per hectare during a week). This campaign was stopped by the end of June when the development of the foliage began. The density of ticks was determined before and after the operation; a decrease in their number by 85-95% was established but it is doubtful whether this should be ascribed only to the insecticidal campaign, because there was a decrease, though less marked, also in non-treated control areas. The residual effect of hexachlorane was only slight. The ticks had been affected by the insecticide in their pre-imaginal stages, but had not been eradicated.

Mitov - Plovdiv

BABENKO, L.V.

Geographic variability of the seasonal activity of Ixodes ricinus  
and Ixodes persulcatus and causes of their annual numerical fluctuations [with summary in English]. Med.paraz. i paraz.bol. 27 no.6:  
639-653 N-D '58. (MIRA 12:2)

1. Iz sektora entomologii Instituta malyarii, meditsinskoy parazitologii i gel'mintologii Ministerstva zdravookhraneniya SSSR (dir. instituta - prof. P.G. Sergiyev, zav. sektorom - prof. V.N. Beklemishev).

(TICKS,

Ixodes ricinus & Ixodes persulcatus, distribution  
& seasonal variations (Rus))

BABENKO, L.V.

Ixodes persulcatus in the Tuva Autonomous Province [with summary  
in English]. Med.paraz. i paraz. bolezni. 23 no.1:41-44 Ja-F '59

(MIRA 12:3)

1. Iz Instituta malyarii, meditsinskoy parazitologii i gel'mintologii  
(dir. instituta - prof. P.G. Sergiyev, zav. sektorom - prof. V.N.  
Beklimishev) Ministerstva zdravookhraneniya SSSR.

(TICKS,

Ixodes persuleatus (Rus))

BABENKO, L.V.; BUYANOVA, O.F.; KELLINA, O.I.; LEYKINA, Ye.S.; RAZUMOVA, Ye.P.;  
FASTOVSKAYA, E.I.; CHALAYA, L.Ye.; SHIPITSINA, N.K.

All-Union Conference on the Control of Parasitic Diseases.  
Med.paraz. i paraz.bol. 28 no.3:364-373 My-Je '59.  
(MIRA 12:9)  
(PARASITOLOGY--CONGRESSES)

BARENKO, L.V.

Use of radioactive isotopes for labeling ticks. Med.paraz.i  
paraz.bol. 29 no.3:320-324 '60. (MIRA 13:12)  
(TICKS) (RADIOISOTOPES) (INSECTS, MARKING OF)

BABENKO, L. V.; RUBINA, M. A.

Rates of development of *Ixodes persulcatus* P. Sch. in the Krasnoyarsk Territory and forecasts for its abundance. Med. paraz. i paraz. bol. no.4:409-416 '61. (MIRA 14:12)

1. Iz entomologicheskogo otdela Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye. I. Martsinovskogo Ministerstva zdravookhraneniya SSSR (dir. instituta - prof. P. G. Sergiyev, zav. otdelom - prof. V. N. Beklemishev)

(KRASNOYARSK TERRITORY—TICKS)

BABENKO, L.V.; RUBINA, M.A.

Simplification of the method used in forecasting the quantity  
of ticks of the genus Ixodes occurring in pastures and some  
data concerning their biology. Med. paraz. i paraz.bol. 32  
(MIRA 16:10)  
no.1:13-18 Ja-F'63.

1. Iz otdela entomologii (zav. - prof. V.N.Beklemishev [deceas-  
sed]) Instituta meditsinskoy parazitologii i tropicheskoy me-  
ditsiny imeni Ye.I.Martsinovskogo (dir. - prof. P.G.Sergiyev)  
Ministerstva zdravookhraneniya SSSR.

\*

RUBINA, M.A.; BABENKO, L.V.

Development of the tick Ixodes apronophorus P. Sch. Zool. zhur.  
42 no.5:670-673 '63. (MIRA 16:7)

1. Institute of Medical Parasitology and Tropical Medicine,  
Ministry of Public Health of the U.S.S.R., Moscow.  
(Insects—Development) (Siberia—Ticks)

GERSHKOVICH, N.L.; YEVSEYEVA, V.Ye.; BABENKO, L.V.

Ectoparasites; fauna; biology and its practical importance;  
annotation. Med. paraz. i paraz. bol. 33 no.6:752 N-D '64.  
(MIRA 18:6)

BARENKO, L.V.; PLATONOVА, V.F.

Dиапause in the larvae of *Ixodes ricinus* L. and *Ixodes persulcatus* P.Sch. (Parasitiformes, Ixodidae). Report No.1: Experimental data on the effect of a photoperiod on hungry and satiated larvae. Med. paraz. i paraz. bol. 34 no.1:69-73 Ja-F '65.

(MIRA 18:8)

BAKUNKO, M.

The work council solve basic problems. Sov. profsoiuzy 7 no.17:23-24  
S '59. (MIRA 12:11)

1. Predsedatel' postoyanno deystvuyushchego proizvodstvennogo  
soveshchaniya Ural'skogo alyuminiyevogo zavoda.  
(Works councils)

KOVALEVSKAYA, M.M.; KUL'MAN, R.K.; BABENKO, M.S.

Methods for determining yields of products from the carbonization  
of coal. Koks i khim. no.1:43-46 '61. (MIRA 14:1)

1. Stalinskiy koksokhimicheskiy zavod.  
(Coke industry—By-products)

BABENKO, N.

First air-line station in a city. Grazhd. av. no.3:6-7 Mr '61.  
(MIRA 14:3)

1. Nachal'nik Leningradskogo gorodskogo aerovokzala.  
(Leningrad--Airports--Management)

BABENKO, N.

Passengers are satisfied. Grazhd. av. 21 no.9:8 S '64. (MIRA 17:10)  
1. Nachal'nik Leningradskogo gorodskogo aerovokzala.

BABENKO, N.G.

Clinical morphological characteristics of the Sturge-Weber disease. Trudy KirgNOAGE no.2:154-156 '65.

Some characteristics of the topography of the third, fourth and sixth cranial nerves in newborn infants. Trud.:157-160

(MIRA 18:11)

I. Iz kafedry normal'noy anatomii (zav. - prof. N.N.Iavrov)  
i kafedry glaznykh bolezney (zav. - dotsent S.M.Dobrova)  
Kirgizskogo gosudarstvennogo meditsinskogo instituta.

REF ID: A652768  
EWP-2/EWC(2)-2/EWT(4)/EWP(1)

Pg-4/Pk-4/Pq-4 IJP(c)

UR/0000/64/000/000/0631/0635

SESSION NR. AT5011636

Author: Baranov, N. E.; Rekh, A. D.; Voytovich, I. D.; Zykov, F. N.; Pristupa,  
Ia., Mekhaylov, G. A.

TITLE: Ferrite memories of the UMSHn machines

Series: Vsesoyuznoye soveshchaniye po magnitnym elementam avtomatiki, telemekhaniki i radioelektronnoy tekhniki, izd. 1961. Magnitnyye elementy

trudy soveshcheniya, Kiev, No. 1003-010000, 1986, p. 1  
TOPIC TAGS: ferrite memory, address shaper, key element, recording shaper, address  
network

ABSTRACT: This purely descriptive article presents circuit diagrams, block dia-  
grams, operational characteristics, and construction details of the operative  
circuit, memory and control circuitry (including the address shaper, the key ele-  
ment, the recording shaper, and the address network). Only art. has a class  
and i table.

Card 1/2

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9

L 45729-69  
ACCESSION NR AT5011636

ASSOCIATION: None

SUBMITTED: 19 Sep 64

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SUB CODE: DP

NO REF SCV: 000

OTHER: 000

Cord 2/2

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$\text{r}_\text{MFT}(\text{d})/\text{SWT}(\text{l})/\text{EBC}(\text{k}) \rightarrow \text{T}/\text{EBD} \rightarrow \text{EWI}(\text{l})/\text{EWA}(\text{h}) \quad \text{Pz-6/Pq-4/Pg-4/}$

1

Author: Babenko, N. K.; Bekh, A. D.; Zykov, F. N.; Mikhaylov, G. A.

19. The following table gives the number of hours worked by each of the 1000 workers.

TOPIC TAGS: fast memory, semiconductor controlled memory, recovery time, registration time, decoding time

ABSTRACT: The operation of memories is usually characterized by the reversal time, consisting of three components: the time of reception and decoding of the address, the regeneration time and the regeneration time. The first and last mentioned components, taken together, are times of time, and the time needed for the output of the address. Consequently, further increases in the speed of the system.

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ASSOCIATION: None

SUBMITTED: 29 Sep 54

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SUB CODE: DP, EC

NO REF Sov: 001

OTHER: 000

Card

2/2

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CIA-RDP86-00513R000102820009-9"

L 38186-66 EWT(d)/EMP(1) 1J1(c) GG/DD/GD  
ACC NR AT6017031

SOURCE CODE: UR/0000/65/000/000/0059/0070

AUTHOR: Babenko, N. K.; Bekh, A. D.

38

ORG: none

B+1

TITLE: Increased access time to ferrite memories through improvement of  
discharge circuits <sup>160</sup>

SOURCE: AN UkrSSR. Kiberneticheskaya tekhnika (Cybernetic techniques). Kiev,  
Naukova dumka, 1965, 59-70

TOPIC TAGS: ferrite core memory, memory core, memory access technique

ABSTRACT: The article deals with the overall problem of increased memory element response speed, with particular attention to maximum operating cycles for the address and discharge circuitry. Increased response speeds for direct-sample ferrite storage devices are to be sought primarily through improvements in the discharge circuitry. The effects of discharge-induced noise amplitude on the useful signal-to-noise ratio are discussed in detail together with storage element sensitivity and response speed. The discharge noise may be reduced by separating the signal coil into two sections and coupling them in phase opposition for purposes of discharge noise compensation. This principle is examined at length. Read-out amplifier circuit diagrams are considered which provide for a reduced

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ACC NR: AT6017031

effect of discharge noise on cycle duration. The most promising are circuits of the differential amplifier type, in which case the maximum cycle of the storage unit is determined only by the cycl. of the memory core. The circuit diagram of such a reading amplifier having an operating cycle smaller than that of the signal coil is analyzed in detail. The response speed of ferrite memories of large capacity is shown to be limited by the operating cycle of the read-out amplifier. The use of time-selection circuits at the amplifier input makes it possible to design a memory with a cycle equal to the maximum cycle of the ferrite core. By dividing the signal winding into parts a reduction in the operating cycle of the ferrite core can be achieved. Orig. art. has: 7 figures.

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SUB CODE: 09 / SUBM DATE: 28Jul65 / ORIG REF: 004 / OTH REF: 000

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Card 2/2

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9

*BABENKO N.L.*

KOVALENKO, P.N.; BABENKO, N.L.

Using wet cementation in quantitative analysis. Report No.1:  
Determining antimony in zinc electrolytes. Soob.o nauch.rab.chl.  
VKHO no.1:8-11 '55. (MIRA 10:10)  
(Antimony) (Electrolytes)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9"

BABENKO, N.L.

Photocolorimetric determination of arsenic following its preliminary  
isolation. Trudy Alt. GMNII AN Kazakh. SSR 14:129-130 '63.  
(MIRA 16:9)

(Arsenic--Analysis) (Colorimetry)

BUSEV, A.I.; BABENKO, N.L.; KHOANG MIN' TYAU

Extractive separation of selenium and tellurium and their  
subsequent photometric determination. Zhur. anal. khim. 18  
no.9:1094-1099 S '63. (MIRA 16:11)

1. M.V. Lomonosov Moscow State University.

BUSEV, A.I.; BABENKO, N.L.

Derivatives of pyrazolone as reagents for tellurium. Zhur.anal.khim.  
18 no.8:972-978 Ag '63. (MIRA 16:12)

1. Moscow State University.

BUSEV, A.I.; BABENKO, N.L.; CHEPIK, M.N.

Determination of tellurium in selenium, lead, bismuth, copper,  
and other products of the lead-zinc industry. Zhur. anal. khim.  
19 no.7:871-875 '64. (MIRA 17:11)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

BUSEV, A.I.; BABENKO, N.L.

Halide complex compounds of gold (III) with pyrazolone derivatives  
and their use in the separation of gold and tellurium. Zhur. anal.  
khim. 19 no.8:926-931 '64.

(MIRA 17:11)

I. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

BUSEV, A.I.; BABENKO, N.L.; CHEPIK, M.N.

Photometric determination of gold and tellurium in metallic copper  
and in the intermediate products of the copper industry. Zhur.anal.  
khim. 19 no.9:1057-1061 '64. (MIRA 17:10)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

MAL'KOV, V.G., inzh.; PAVLENKO, V.I., inzh.; PUDOV, V.S., inzh. V rabote  
printsev! uschastikov: A.N., M., inzh.; MERSHCHIY, N.P., inzh.;  
CHETVERIKOV, V.Ya., inzh.; KEROV, I.N., inzh.; RATNER, B.R., inzh.;  
BUBEYCHEV, G.D., inzh.; ALFEROV, A.S., inzh.; PAVLENKO, N.M., inzh.;  
FINKEL'SHTEYN, M.M., inzh.; PLUZHKO, N.F., inzh.; SAMSONOV, T.F.,  
inzh.; BABENKO, N.N., inzh.; LAD'YANOV, N.I., inzh.; TUPIL'KO, V.S.,  
inzh.

Decoxidizing and alloying 25G2C steel with ferromanganese and ferro-  
silicon in 200-ton ladles. Stal' 20 no.9:803-806 S '60.(MIRA 13:9)  
(Steel, Structural---Metallurgy)

BABENKO, N.P., inzh.; MOMOT, D.I., inzh.

Method of constructing the shape of the gears of traction  
sprockets for round-link chains. Vop. rud. transp. no.6:  
(MIRA 15:8)  
83-93 '62.

1. Zavod "Svet shakhtera".  
(Chains) (Gear cutting)

246580

45365

S/056/63/044/001/025/067  
B104/B144

AUTHORS: Babenko, N. P., Bibichev, B. A., Konstantinov, I. O.,  
Nemilov, Yu. A.

TITLE: Neutron polarization in the  $C^{12}(d,n)N^{13}$  reaction

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,  
no. 1, 1963, 135-136

TEXT: The polarization of neutrons from the reaction  $C^{12}(d,n)N^{13}$  corresponding to the formation of an  $N^{13}$  nucleus in the ground state was measured for a deuteron energy of 6.5 Mev. The neutrons were selected by a conical paraffin collimator at an angle of  $40^\circ$  with the deuteron beam direction. A helium high-pressure scintillation counter was used as analyzer. The chamber of this counter was 4 cm in diameter and 7 cm high, the pressure ( $He + 7\% Xe$ ) was 70 atm. The neutrons scattered by helium under an angle of  $123^\circ$  were recorded by stilbene crystals. The thickness of the Aquadag target corresponded to a loss in deuteron energy of 600 kev, the current to the target was 5  $\mu$ a. Using a

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S/056/63/044/U01/U25/067  
B101/B144

Neutron polarization in the ...

polarization value of  $P_{He^4}$  = 0.94 for 5.7 Mev neutrons scattered on helium through  $123^0$  (B.L.Walter et al., Nucl.Phys., 30, 292, 1962), a value of  $P(40^0)$  =  $(-25.0 \pm 3.0)\%$  was obtained for neutron polarization from the  $C^{12}(d,n)N^{13}$  reaction ( $E_d = (6.2 \pm 0.3)$  Mev). This value agrees with that obtained in the polarization theory for stripping reactions for this energy range. There are 2 figures.

SUBMITTED: August 10, 1962

Card 2/2

BABENKO, N.P.; KONSTANTINOV, I.O.; NEMILOV, Yu.A.

Angular distribution of the polarization of neutrons from the  
 $C^{12}(d, n)N^{13}$  reaction. Zhur. eksp. i teor. fiz. 45 no.5:1389-  
1392 N '63. (MIRA 17:1)

1. Radiyevyy institut AN SSSR.

ACCESSION NR: AP4033101

S/0120/64/000/002/0029/0035

AUTHOR: Babenko, N. P.; Konstantinov, I. O.

TITLE: Neutron polarimeter

SOURCE: Pribory\* i tekhnika eksperimenta, no. 2, 1964, 29-35

TOPIC TAGS: polarimeter, neutron polarimeter, fast neutron polarimeter, cyclotron

ABSTRACT: A new polarimeter is used in conjunction with a cyclotron which produces a 6.6-Mev deuteron beam with an average current of 3 microamp. The cyclotron deuterons are focused by quadrupole lenses on a target, cause a reaction there, and proceed further into a Faraday's cylinder. The neutrons are taken off at an angle  $\theta$ , by a shielded conical collimator (see Enclosure 1) with a  $3^{\circ}$  angular aperture. A high-pressure gas scintillation counter (design drawing and principal data supplied) is placed at 65 cm from the target; the shield

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ACCESSION NR: AP4033101

consists of 35 cm paraffin and 10 cm lead. The gas counter serves simultaneously as an analyzer and as a monitor of fast neutrons. Although the polarimeter can be adjusted for a resolution time of 1 nsec, the size of the gas analyzer and neutron detectors, as well as stability interests, makes a resolution time of 5 nsec expedient. Calibrating and aligning procedures of the polarimeter are also described. "The authors consider it their pleasant duty to thank Yu. A. Nemilov for his fruitful help in carrying out this project." Orig. art. has: 8 figures and 1 formula.

ASSOCIATION: none

SUBMITTED: 29May63

DATE ACQ: 11May64

ENCL: 01

SUB CODE: NS

NO REF SOV: 004

OTHER: 024

Card 2/3

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9

BABENKO, N.P.; KONSTANTINOV, I.O.

Neutron polarimeter. Prib. i tekhn. eksp. 9 no. 2:29-35  
(MIRA 17:5)  
Mr-Ap'64.

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9"

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9

BABENKO, N.P.; KONSTANTINOV, I.O.; NEMILOV, Yu.A.

High-pressure gas scintillation counter. Prib. i tekhn. eksp.  
(MIRA 17:5)  
9 no.2:164-166 Mr-Ap'64.

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9"

ACCESSION NR: AP4033141

S/0120/64/000/002/0164/0166

AUTHOR: Babenko, N. P.; Konstantinov, I. O.; Nemilov, Yu. A.

TITLE: High-pressure gas scintillation counter

SOURCE: Pribory i tekhnika eksperimenta, no. 2, 1964, 164-166

TOPIC TAGS: counter, scintillation counter, gas scintillation counter, high pressure gas scintillation counter, fast neutron polarization, neutron polarimeter

ABSTRACT: A new-design high-pressure gas scintillation counter intended to measure fast-neutron polarization is described. Design sketches of the counter and of the exhaust and filling valves are presented. A stainless-steel chamber with an internal volume of 70 cm<sup>3</sup> is filled at 100 atm with a mixture of 5-7% Xe and 93-95% He<sup>4</sup>. All gaskets are made of teflon. An alpha-source (Po) introduced into the counter serves to measure its time and amplitude characteristics; the halfwidth of the Po line is under 6%. The resolution time of the counter

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ACCESSION NR: AP4033141

is not longer than that of stilbene. The counter has been used both as an analyzer and as a monitor in a neutron polarimeter. Orig. art. has 4 figures.

ASSOCIATION: none

SUBMITTED: 15May63

ATD PRESS: 3066

ENCL: 00

SUB CODE: OP, MP

NO REF Sov: 001

OTHER: 004

Card 2/2

ACCESSION NR: AP4043656

S/0056/64/047/002/0767/0768

AUTHORS: Babenko, N. P.; Konstantinov, I. O.; Moskalev, A. P.;  
Nemilov, Yu. A.

TITLE: Neutron polarization in the reaction  $D(d, n)\text{He}^3$

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 2, 1964, 767-768

TOPIC TAGS: neutron polarization, deuteron scattering, deuteron cross section, deuterium, helium

ABSTRACT: The authors used a previously published (ZhETF v. 45, 1389, 1963) and somewhat improved procedure to measure the polarization of neutrons from the reaction  $D(d, n)\text{He}^3$  at incident deuteron energies 4.7 and 5.6 MeV, for a reaction angle of  $45^\circ$  in the center-of-mass system. The measurements were made with the extracted beam of the Radium Institute cyclotron at a deuteron energy  $6.6 \pm 0.1$  MeV. The target was gaseous deuterium at a pressure of 4.5 atm in a volume

Cord 1/3

ACCESSION NR: AP4043656

5A  
— +  
bounded by two tantalum foils. The neutrons from the reaction were analyzed with a gas-filled scintillation counter at 135°. As shown in Fig. 1 of the enclosure the dependence of the neutron polarization on the incident-deuteron energy, as obtained by various investigators, tends to cluster about two experimental curves. The present results follow the upper curve of the figure. "The authors thank M. B. Miller for help with the measurements." Orig. art. has: 1 figure.

ASSOCIATION: None

ENCL: 01

SUBMITTED: 14Feb64

OTHER: 006

SUB CODE: NP

NR REF Sov: 004

Cord 2/3

ACCESSION NR: AP4043656

ENCLOSURE: 01

POSTCARD

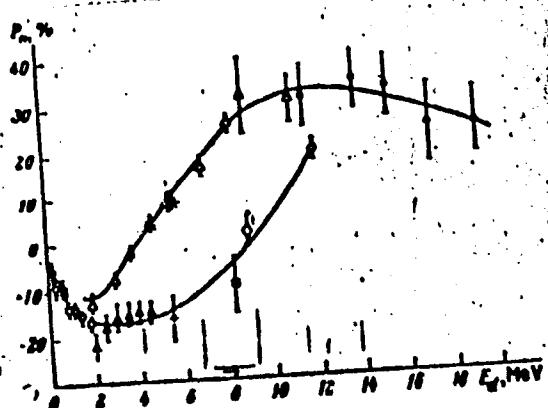


Fig. 1. Dependence of polarization of the neutrons from the reaction  $D(d, n)\text{He}^3$  on the incident-deuteron energy according to various sources.

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"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9

BABENKO, N.P.; BIBICHEV, B.A.; KONSTANTINOV, I.O.; MOSKALEV, A.P.; NEMILOV,  
Yu.A.

Neutron polarization in ( $d, n$ ) type stripping reactions with  $l_p = 1$ .  
(MIRA 18:5)  
IAd. fiz. 1 no.38452-455 Mr '65.

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9"

L 3507-66 EWT(1) IJP(c)  
ACCESSION NR: AP5021360

UR/0120/65/000/004/0188/0191  
621.317.44

AUTHOR: Babenko, N. S.; Korobeynikov, L. S.

TITLE: Vibrational sensor of the relative gradient of the constant magnetic field.

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1965, 188-191

TOPIC TAGS: magnetic field measurement, constant magnetic field, physics laboratory instrument

ABSTRACT: The existing sensors of magnetic fields are divided into turning, rotating, and vibrational devices. This article presents the theory, error estimate, design, and test results of a vibrational magnetic field sensor (N. S. Babenko, L. S. Korobeynikov, Avt. zayavka [Author's patent application] no. 828819/26-10) distinguished by the absence of external motors. It can be used for continuous registration of the magnetic field decrease index. Two recording coils located within the general working volume are brought into oscillation by a third, AC, coil between the other two. The sensitivity of the sensor together with the associated circuitry is about 0.1 Gauss/cm/division. Field gradient

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L 3607-66

ACCESSION NR: AP5021360

measurements differ by less than 1% from the corresponding values obtained by precise turning coil at fields  $B_0 \approx 2$  kGauss, and  $B^{-1} \partial B / \partial r = 1.58\%/\text{cm}$ . The operating principle of this sensor may be applied to the measurements of effects related to the quadratic field dependence. "The authors thank B. S. Kudinov for useful remarks during the development of the sensor and A. G. Sergeyev for the production of several alternatives of vibrational sensors." Orig. art. has: 11 formulas and 3 figures.

ASSOCIATION: Institut yadernoy fiziki SO AN SSSR, Novosibirsk (Institute of Nuclear Physics, SO AN SSSR)

SUBMITTED: 12 June 64

ENCL: 00

SUB CODE: EM

NO REF SOV: 005

OTHER: 001

Card 2/2

KORONKEVICH, V.P.; LENKOVA, G.A.; BARENKO, N.S.; LOKHMATOV, A.I.

Photoelectric method for recording the achromatic interference  
fringe. Opt.i spektr. 11 no.1:112-117 Jl '61. (MIRA 14:10)  
(Interferometry) (Photoelectric measurements)

BABENKO, N.S.; TAL'KO-GRINTSEVICH, P.P.; YATSYNINA, N.L.

Methods and direct current apparatuses for testing small  
specimens of magnetically soft materials. Trudy inst. Kom.stan.mer.  
i iam.prib no.64:93-99 '62. (MIRA 16:5)  
(Magnetic measurements—Equipment and supplies)

BABENKO, N.V.

Using ordinary (acid), ammonified and neutralized granulated and powder-type superphosphates in plant growing tests. Trudy NIUIF no.157:162-184 '55. (Phosphates) (MIRA 9:9)

USSR / Soil Science. Mineral Fertilizers.

J

Abs Jour : Ref Zhur - Biologiya, No 11, 1958, No. 48656

Author : Babenko, N. V.

: Not given

Title : The Value of Nitrogen in Ammoniated Super-phosphate

Orig Pub : Udobreniye i urozhay, 1957, No 6, 32-38

Abstract : Vegetation experiments, carried out in the Dolgoprudno test field (Moskovskaya Oblast') with fiber flax and spring wheat on chernozem and podzolic soil, confirming the significance of superphosphate ammonization, showed that crop increases rise proportionately to increases in N content. This was also confirmed in field experiments carried out with various agricultural plants in different regions of the USSR, but in

Card 1/2

| USSR / Soil Science. Mineral Fertilizers. J

Abs Jour : Rof Zhur - Biologiya, No 11, 1958, No. 48656

several soils greater activity was shown by ammoniated superphosphate containing not more than 3% nitrogen. -- N. N. Sokolov

Card 2/2

33

REVIEW, ...T., 9nd Apr 80--(S) "Research and Study of Unmanned  
Concave <sup>4</sup> phosphorite of Keweenaw County." 100, 100.  
An application for a Council of Miners & Min. Ind. Act  
16 (S) is submitted by the Council of Min. Ind. Act  
for mining and processing iron (U.S. Pat. 3,419,158), 100 units  
(11,45-82, 140)

- 1/3 -

БИБЛІОГРАФІЧНИЙ ЗАПІСКІ

CHUGAY, Aleksandr Maksimovich, starshiy nauchnyy sotrudnik; SAVRANCHUK,  
Petr Terent'yevich; BABENKO, Nikolay Vasili'yevich; ROZENTAL',  
Yu.M., kand.ekon.nauk, otvetstvennyy red.; BRAILOVSKAYA, M., red.;  
GLAZYRINA, D., red.; ROROKINA, Z., tekhn.red.

[Economic aspects of reed-panel work] Экономика камышитового  
производства. Ответственный редактор И.М.Розенталь. Алма-Ата,  
Изд-во Акад. наук Казахской ССР, 1958. 210 п. (МИРА 11:5)

1. Institut ekonomiki Akademii nauk Kazakhskoy SSR (for Chugay)  
(Rush work)

GRACHEV, D. G., kand. sel'skokhozyaystvennykh nauk; GRINSHPAN, L. B.,  
kand. tekhn. nauk; BABENKO, N. V., kand. sel'skokhozyaystvennykh  
nauk

Production and use of complex (mixed and compound) fertilizers.  
Zhur. VKHO 7 no.5:513-520 '62. (MIRA 15:10)

(Fertilizers and manures)

GRACHEV, D.G., kand.sel'skokhosyaystvennykh nauk; BABENKO, N.V.,  
kand.sel'skokhosyaystvennykh nauk

Give more attention to the storage of mineral fertilizers. Zemledelie  
24 no.6:54-56 Je '62. (MIRA 15:11)

1. Nauchnyy institut po udobreniyam i insektofungisidam imeni  
prof. Ya.V.Samoylova.  
(Fertilizers and manures--Storage)

PYATNITSKIY, M.P. (g.Krasnodar); BABENKO, O. (g. Krasnodar)

Obtaining small quantities of potassium chlorate by the  
action of chlorine on caustic potash, Khim. v shkole 10  
no.6:51-52 N-D '55. (MLRA 9:1)  
(Chemistry--Experiments)(Potassium chlorate)

8/081/61/000/021/025/094  
B101/B147

AUTHOR: Babenko, O. S.

TITLE: A new highly sensitive reaction for magnesium ion

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 101, abstract  
21D48 (Nauk. zap. Chernivets'k. un-t, v. 33, 1959, 94 - 96)

TEXT: The author points to the possibility of using tropasolin 000 as a  
highly sensitive reagent for  $Mg^{2+}$ . He established the detectable  
minimum and the limit dilution for pure Mg solutions. He also studied  
the effect of other cations. [Abstracter's note: Complete translation.]

Card 1/1

MATSEKOVICH, P.P.; BABENKO, O.V.

Attachment for the mechanization of lapping. Mashinostroitel'  
no.12:19 D '65. (MFA 18:12)

GEORGADZE, S.; MATLIN, M.; MINGORODSKIY, I., starshiy instruktor;  
CHERNYSHEV, G., student (Zhdanov); DEKHTYAR, B.. metodist;  
VYOTOSKIY, V., instruktor; KANUKOV, G. (g. Shakty, Rostovskoy obl.);  
MCCHEDLISHVILI, T. (Tbilisi); BABENKO, P. (Poltavskaya obl.)

Readers relate; advise and criticize. Sov. profsoiuzy 18 no.19:30-31  
O '62. (MIRA 15:9)

1. Nachal'nik otdela truda i zarabotnoy platy rudnika "Nittis-Kumuzh'ye" kombinata "Severonikel'", Murmanskaya obl. (for Matlin).
2. Orgmassovyy otDEL Krasnodarskogo kraysovprofa (for Mirgorodskiy).
3. TSentral'nyy Dom kul'tury zheleznodorozhnikov, g. Rostov-na-Donu (for Dekhtyar).
4. Gorodskoy komitet Kommunisticheskoy partii Sovetskogo Soyuza; g. Omsk (for Vysotskiy).
5. Neshtatnyy korrespondent zhurnala "Sovetskiye profsoyuzy" (for Kanukov).  
(Tiflis--Engraving) (Trade unions) (Wedding)

BABENKO, R.A.

Oxygen therapy in coronary insufficiency. Trudy LSGHI 40:48-58  
'58. (MIRA 12:8)

1. Fakul'tetskaya terapeuticheskaya klinika Leningradskogo  
sanitarno-gigienicheskogo meditsinskogo instituta (zav.  
klinikoy - prof. A.A. Kedrov).  
(CORONARY DISEASE, ther.  
insuff., oxygen ther. (Rus))  
(OXYGEN, ther. use,  
coronary insuff. (Rus))

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9

BABENKO, R.A.

Photothermoelectrographic method for determining blood flow rate  
in an experiment. Trudy ISGNI 48:447-454 '59. (MIRA 14:2)  
(CORONARY VESSELS)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9"

BABENKO, R.A.

Effect of increased concentrations of oxygen and carbon dioxide  
on coronary blood flow; experimental study. Trudy LSGNI 48:455-  
461 '59. (CORONARY VESSELS) (OXYGEN)  
(CARBON DIOXIDE)

BABENKO, R.A. (Leningrad)

Effect of oxygen and carbon dioxide on the rate of coronary blood flow. Pat. fiziol. i eksp. terap. 5 no.6:52-56 N-D '61.

(MIRA 15:4)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. I.R.Perel'man)  
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.  
(BLOOD--CIRCULATION) (CARBON DIOXIDE--PHYSIOLOGICAL EFFECT)  
(OXYGEN--PHYSIOLOGICAL EFFECT)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9

BABENKO, S. (Engr-Capt. 2d Rank, Senior Mechanical Engineer Aboard the Cruiser Admiral Nakhimov)

Author of article, "Preparation Decided Success," concerning the preparations for, and activities during, the cruise of the Admiral Nakhimov to Albania made by the electric-mechanical department of the ship. (Krasnaya Zvezda, Moscow, 21 Jul 54)

SO: SUM No. 239, 13 Oct. 1954

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9"

GOLIK, A.Z. [Holyk, O.Z.]; RYNDICH, N.A. [Ryndych, N.A.]; BABENKO, S.A.

Viscosity of a Sn - Bi system [with summary in English]. Ukr.  
(MIR 11:10)  
fiz. zhur. 3 no.3:365-369 My-Je '58.

1. Kiyevskiy gosudarstvennyy universitet.  
(Systems (Chemistry)) (Viscosity)

BABENKO, S.A., inzh.

Flotation of feldspar from arkose sands. Izv. vys. ucheb.  
zav.; gor. zhur. 7 no.5:155-157 '64. (MIRA 17:12)

l. Tomskiy politekhnicheskiy institut imeni S.M. Kirova.  
Rekomendovana kafedroy obshchey khimicheskoy tekhnologii.

BABENKO, S.A.; Prin mali uchastiye: PLESHKOVA, A.F.; PROKOP'YEVA, F.G.;  
CHERVENCHUK, G.A.

Flotation of ilminite from sands containing humic substances.  
Izv. SO AN SSSR no.10 Ser. tekhn. nauk no.3:104-108 '63.  
(MIRA 1":11)

1. Tomskiy politekhnicheskiy institut.

BABKIN, S A., inzh.

Conjugation of epoxy compounds with polyacrylic acid. In: "Epoxy resins and their applications". Institute of organic chemistry, Academy of Sciences of the USSR, Moscow, 1964.

P. Novosel'y Polymer Research Institute, Institute of organic chemistry, Academy of Sciences of the USSR, Moscow, 1964.

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9

Babenko, S.F.

BEGAGOYEN, I.A.; BABENKO, S.F.

PT-45 telescopic perforator, Gor.zhur. no.11:60 N 155. (MLRA 9:1)  
(Boring machinery)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820009-9"

BABENKO, S.P.; DYADYURA, A.G., inzhener.

New PSh-20 sinking perforator for boring hard rock. Gor. shur.  
no. 5:23-25 My '56. (MLRA 9:8)

1. Glavnnyy konstruktor zavoda "Kommunist" (for Babenko)  
(Rock drills)

BEGAGOYEN, I.A., dotsent, kandidat tekhnicheskikh nauk; OSMOLOVSKIY, V.V.,  
kandidat tekhnicheskikh nauk; BABENKO, S.P.

| Some aspects of technical progress in mining machine building.  
Gor.zhur. no.8:43-48 Ag '56. (MLRA 9:10)

1.Krivoroshevskiy gornorudnyy institut (for Begagoyen and Osmo-  
lovsckiy). 2.Glavnyy konstruktor zavoda "Kommunist" (for Babenko).  
(Krivoy Rog--Mining machinery)

BABENKO, S. P., gornyy inzhener; KOLOBEDIAN, G. M., gornyy inzhener;  
~~KHUTORNOY, P.S.~~, gornyy inzhener.

Fast PR-20 and PR-23 hammer drills. Cor. zhur. no.4:3-6 Ap '57.  
(MLRA 10:5)

1. Zavod "Kommunist."  
(Rock drills)

BABENKO, S.P.

PSh-50 "sinker" hammer drill. Gor. zhur. no.4:8-10 Ap '57.  
(MLRA 10:5)

1. Glavnyy konstruktor zavoda "Kommunist."  
(Rock drills)

*BABENKO S. F.*

127-58-1-28/28

## AUTHORS:

Osmolovskiy, V.V. and Begagoyen, I.A., Dotsents of the  
Krivoy Rog Ore-Mining Institute; Babenko, S.F. and Khutor-  
noy, P.S., Mining Engineers from the Plant "Kommunist"

## TITLE:

Improve the Utilization and Repair of Mining Equipment  
(Uluchshit' ekspluatatsiyu i remont zaboynogo oborudovaniya)  
Letter to Editorial Board (Pis'mo v redaktsiyu)

## PERIODICAL:

Gornyy Zhurnal, 1958, Nr 1, pp 79-80 (USSR)

## ABSTRACT:

Recently, the ore mines of the Krivoy Rog basin have been equipped with various types of mining machinery, which created the pre-requisite for a considerably rise in labor efficiency. However, these opportunities have not been fully utilized. The low indices of equipment utilization are explained by reasons of technical and organizational character. The authors of the letter propose a number of measures to improve the utilization, one of which is as follows: to convert the mines of the Krivoy Rog basin to a discontinuous regime of operation and assign special shifts or days for repair and preparatory work.

Card 1/4

Improve the Utilization and Repair (cont.)

127-58-1-28/28

ASSOCIATION: Krivorezhskiy gornorudnyy institut (Krivoy Rog Ore-mining Institute), Zavod "Kommunist" ("Kommunist" Works)

AVAILABLE: Library of Congress

1. Mining equipment-Maintenance

Card 2/2

USCOMM-DC-54809

OSMOLOVSKIY, V.V., dots.; BEGAGOYEN, I.A., dots.; BABENKO, S.F., inzh.;  
KHUTORNOY, P.S., inzh.

Operation and repair of mining equipment in Krivoy Rog Basin mines.  
Izv.vys.ucheb.zav.; gor.zhur. no.5:41-45 '58. (MIRA 12:1)

1. Krivoroshskiy gornorudnyy institut.  
(Krivoy Rog--Mining machinery--Maintenance and repair)